

CCA CONTENTSVolume **81**, Number 1, 2008

Pages I–X, 1–222, A1–A24

FOREWORD

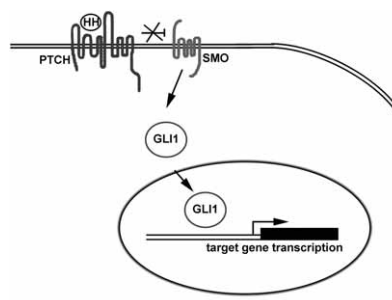
Jadranka Varljen and Zrinka Kovarik

Croat. Chem. Acta **81** (2008) IX**REVIEWS**

CCA-3206

Hh-Gli Signaling Pathway Functions and Its Therapeutic Potential in Cancer

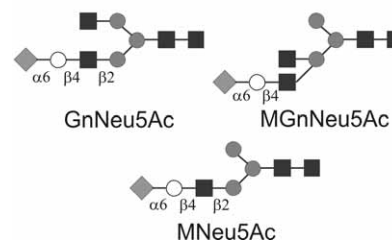
Sonja Levanat, Maja Čretnik, and Vesna Musani

Croat. Chem. Acta **81** (2008) 1–5

CCA-3207

The Glycosylation Capacity of Insect Cells

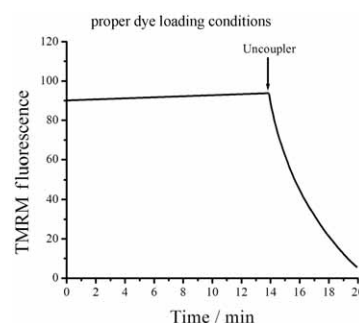
Dubravko Rendić, Iain B. H. Wilson, and Katharina Paschinger

Croat. Chem. Acta **81** (2008) 7–21

CCA-3208

Biomarkers for Drug Discovery: Important Aspects of *in vitro* Assay Design for HTS and HCS Bioassays

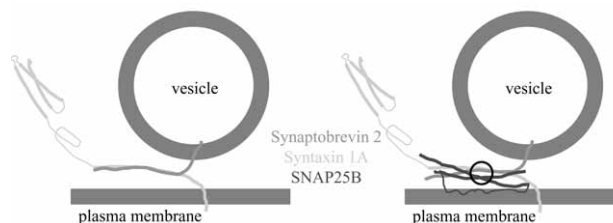
William A. Irwin, Dubravko Jelić, and Roberto Antolović

Croat. Chem. Acta **81** (2008) 23–30

CCA-3209

Single Molecule Probing of Exocytotic Protein Interactions Using Force Spectroscopy

Vedrana Montana, Wei Liu, Umar Mohideen, and Vladimir Parpura

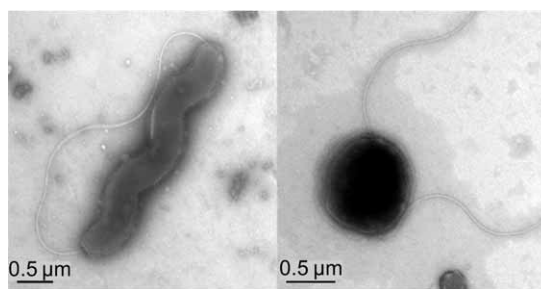
Croat. Chem. Acta **81** (2008) 31–40

ORIGINAL SCIENTIFIC PAPER

CCA-3210

Effects of Low Temperature, Starvation and Oxidative Stress on the Physiology of *Campylobacter jejuni* Cells

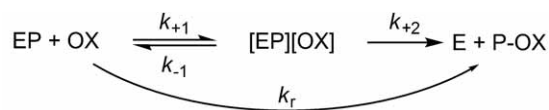
Anja Klančnik, Tina Zorman, and Sonja Smole Možina

Croat. Chem. Acta **81** (2008) 41–46

CCA-3211

***In vitro* Evaluation of Aldoxime Interactions with Human Acetylcholinesterase**

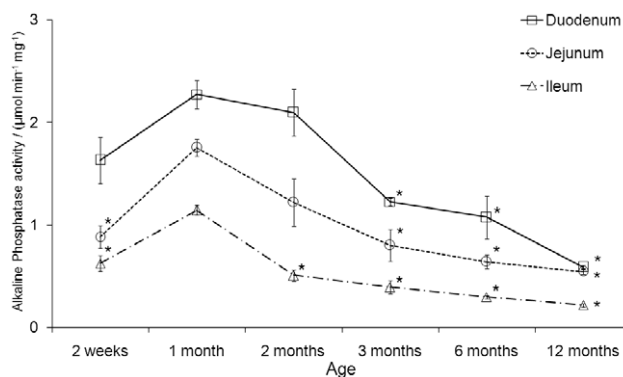
Zrinka Kovarik, Maja Čalić, Anita Bosak, Goran Šinko, and Dubravko Jelić

Croat. Chem. Acta **81** (2008) 47–57

CCA-3212

Age Dependent Changes in Activity of Intestinal Disaccharidases and Alkaline Phosphatase Activity in CD26 Deficient Mice

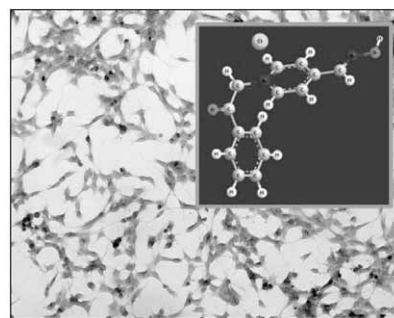
Lara Batičić, Dijana Detel, and Jadranka Varljen

Croat. Chem. Acta **81** (2008) 59–65

CCA-3213

Cytotoxicity of Selected Pyridinium Oximes in Human SH-SY5Y Neuroblastoma Cell Line

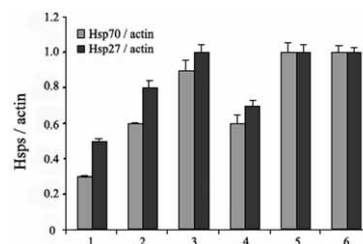
Svjetlana Kalanj Bogonar, Blaženka Foretić, Željka Vukelić, Tonko Gulin, and Davor Ježek

Croat. Chem. Acta **81** (2008) 67–71

CCA-3214

Reduction in Peripheral Blood Leukocyte Heat Shock Proteins 27 and 70 Expression in Chronic Obstructive Pulmonary Disease

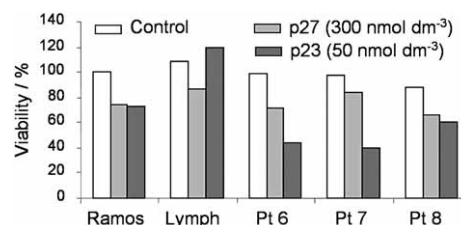
Lada Rumora, Lara Milevoj, Sanja Popović-Grle, Karmela Barišić, Tihana Žanić Grubišić, and Ivana Čepelak

Croat. Chem. Acta **81** (2008) 73–80

CCA-3215

Transduction of p27 to Induce Apoptosis in Tumor Cells

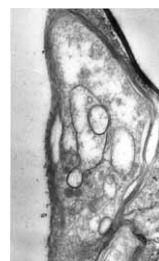
Mira Grdiša, Ana-Matea Mikecin, and Martina Grdiša

Croat. Chem. Acta **81** (2008) 81–87

CCA-3216

Thylakoid System Disassembly during Bleaching of Aurea Mutants of Maple *Acer negundo* Hassk. var. *Odessanum*

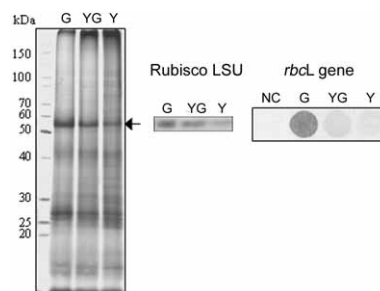
Hrvoje Fulgosi, Snježana Jurić, Hrvoje Lepeduš, Kroat Hazler-Pilepić, Tatjana Prebeg, and Nikola Ljubešić

Croat. Chem. Acta **81** (2008) 89–95

CCA-3217

Photosynthetic Electron Transport and Superoxide Dismutase Activity during Natural Senescence of Maple Leaves

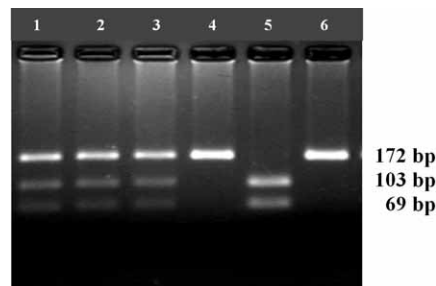
Hrvoje Lepeduš, Ivna Štolfa, Sandra Radić, Mirna Ćurković Perica, Branka Pevalek-Kozlina, and Vera Cesar

Croat. Chem. Acta **81** (2008) 97–103

CCA-3218

Genetic Frequencies of Paraoxonase 1 Gene Polymorphisms in Croatian Population

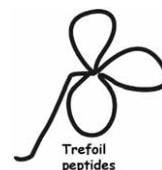
Marija Grdić, Karmela Barišić, Lada Rumora, Ilza Salamunić, Milena Tadijanović, Tihana Žanić Grubišić, Renata Pšikalová, Zlata Flegar-Meštrić, and Dubravka Juretić

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CCA-3219

Novel Expression Patterns for Trefoil Peptides: Presence of Tff2 and Tff3 in Rodent Cochlea

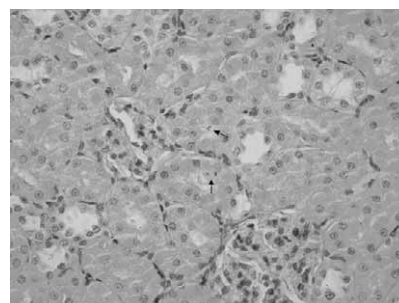
Maria Lubka, Carsten M. Pusch, Nikolaus Blin, and Mirela Baus-Lončar

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CCA-3220

The Effect of a Single Dose of Fumonisin B₁ on Rat Kidney

Maja Peraica, Danica Ljubanović, Davor Želježić, and Ana-Marija Domijan

Croat. Chem. Acta **81** (2008) 119–124

CCA-3221

Frequency of Galactose-1-phosphate Uridyl Transferase Gene Mutations in Healthy Population of Croatia

Karmela Barišić, Lada Rumora, Marija Grdić,
and Dubravka Juretić

Croat. Chem. Acta **81** (2008) 125–130

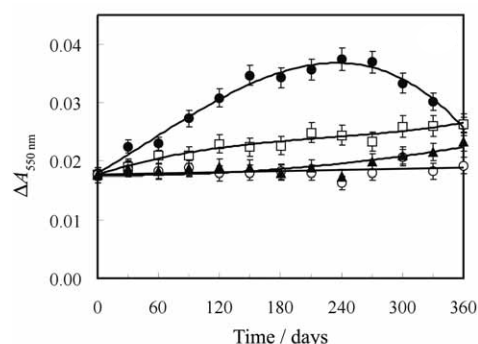
Mutation	Frequency / %	
	Normal alleles	Mutated alleles
Q188R	99.8	0.2
N314D (D1 + D2)	92.5	7.5
IVS5-24G>A	95.7	4.3
Duarte-2	96.4	3.6
Duarte-1	96.2	3.8
K285N	100.0	0.0

CCA-3222

Accumulation of Amadori and Maillard Products in Wheat Seeds Aged under Different Storage Conditions

Ivica Strelec, Žaneta Ugarčić-Hardi, and Mario Hlevnjak

Croat. Chem. Acta **81** (2008) 131–137

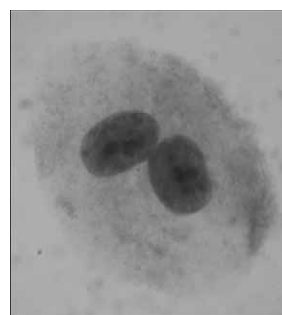


CCA-3223

Genotoxicity of Fumonisin B₁, Beauvericin and Ochratoxin A in Porcine Kidney PK15 Cells: Effects of Individual and Combined Treatment

Maja Šegvić Klarić, Stjepan Pepelnjak, and Ružica Rozgaj

Croat. Chem. Acta **81** (2008) 139–146

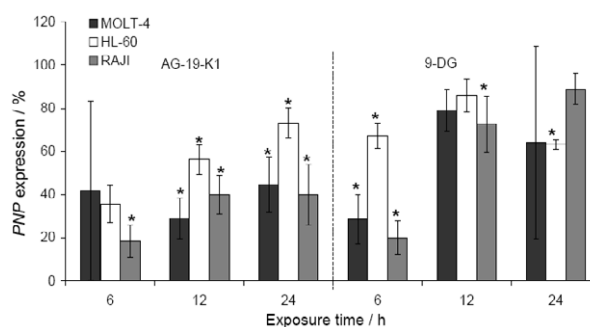


CCA-3224

9-Deazaguanine and Its Methyl Derivatives: Synthesis, Antitumor Activity *in vitro* and Effects on Purine Nucleoside Phosphorylase Gene Expression

Mirjana Suver, Biserka Žinić, Tomislav Portada,
Agnieszka Bzowska, and Ljubica Glavaš-Obrovac

Croat. Chem. Acta **81** (2008) 147–156

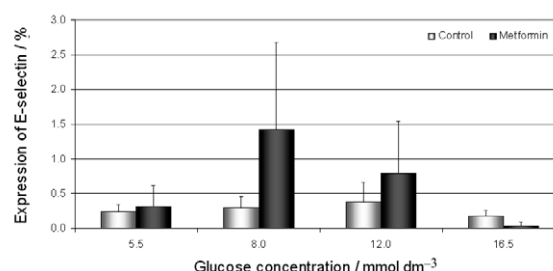


CCA-3225

Effects of Hyperglycemia and Metformin on Expression of Adhesion Molecules on Human Aortic Endothelial Cells

Tatjana Bačun, Tatjana Belovari, Mirjana Suver,
Blaženka Dobrošević, and Ljubica Glavaš-Obrovac

Croat. Chem. Acta **81** (2008) 157–162

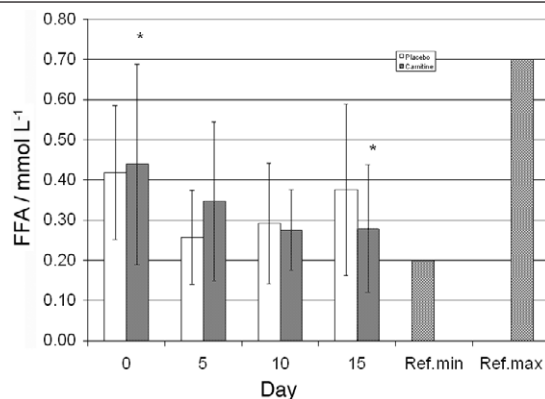


CCA-3226

Effect of L-Carnitine Supplementation on Some Biochemical Parameters in Blood Serum of Sedentary Population

Ivančica Delaš, Tonko Dražić, Melita Čačić-Hribljan, and Krešimir Sanković

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CCA-3227

Hydrolysis of Extracellular Adenine Nucleotides by Human Spermatozoa: Regulatory Role of Ectonucleotidases in Sperm Function

Pavle Romac, Tihana Žanić Grubišić, Davor Ježek, Marijana Vučić, and Ognjen Čulić

Croat. Chem. Acta **81** (2008) 169–176

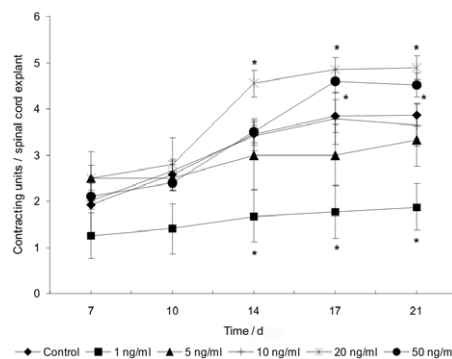


CCA-3228

Effects of LIF on Neuromuscular Junction Formation in Co-cultures of Rat Spinal Cord Explant and Human Muscle

Tomaž Marš

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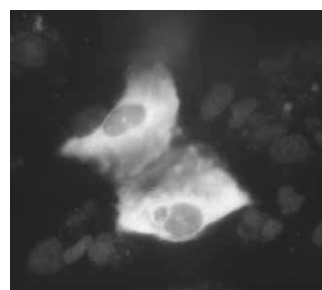


CCA-3229

Head and Neck Tumor Cells Exhibit Altered Proliferation upon Overexpression of *nm23* Genes

Maja Herak Bosnar, Klara Dubravčić, Ružica Bago, and Jasminka Pavelić

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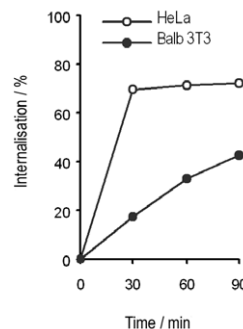


CCA-3230

Endocytic Trafficking of Cholera Toxin in Balb 3T3 Cells

Gordana Blagojević, Hana Mahmutefendić, Natalia Kučić, Maja Ilić Tomaš, and Pero Lučin

Croat. Chem. Acta **81** (2008) 191–202

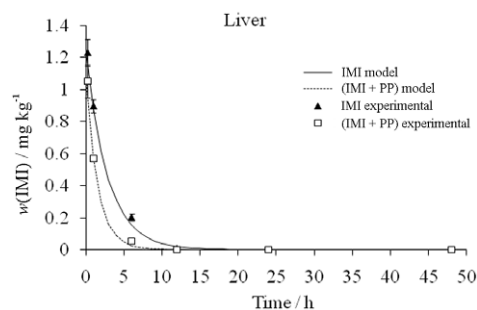


CCA-3231

Kinetic Evaluation of Imidacloprid Degradation in Mice Organs Treated with Olive Oil Polyphenols Extract

Dalibor Broznić, Jelena Marinić, Marin Tota, Gordana Čanadi Jurešić, and Čedomila Milin

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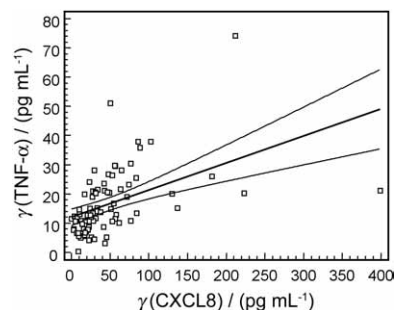


CCA-3232

TNF- α , CXCL8, big ET-1 and hsCRP in Patients with Chronic Obstructive Pulmonary Disease

Sanja Marević, József Petrik, Nada Vrkić, Sanja Popović-Grle, Tihana Žanić-Grubišić, and Ivana Čepelak

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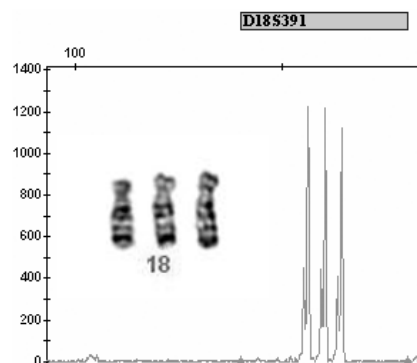
NOTE

CCA-3233

Quantitative Fluorescent PCR – A Rapid Approach to Prenatal Diagnostics of Common Autosomal Aneuploidies

Dinko Pavlinić, Snježana Džijan, Feodora Stipoljev, Jasenka Wagner, Goran Ćurić, and Gordan Lauc

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APPENDIX

OBITUARIES

<i>In memoriam</i> Vera Gamulin (1948–2006)	A1–A4
Petar Strohal (1932–2008)	A5–A6

ERRATUM

Igor Weber	A7
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INSTRUCTIONS TO AUTHORS

A9–A12

MINUTES OF THE ANNUAL ASSEMBLY OF THE CROATIAN CHEMICAL SOCIETY (in Croatian)

A13–A20

ANNOUNCEMENTS AND ADVERTISEMENTS

A21–A24